

**PERSONAL MOBILE COMPUTING DEVICE HAVING
ANTENNA MICROPHONE AND SPEECH DETECTION FOR
IMPROVED SPEECH RECOGNITION**

ABSTRACT OF THE DISCLOSURE

A mobile computing device, adapted to be held in the palm of a user's hand, includes an antenna for transmission of information from the mobile computing device. A first microphone, adapted to convert audible speech from the user into speech signals, is positioned at a distal end of the antenna. The antenna is rotatable, while the mobile computing device is held by the user, into a position which directs the first microphone toward the mouth of the user. A speech sensor outputs a sensor signal indicative of whether the user is speaking.